



Contribution ID: 12

Type: **not specified**

## Measurement of the t-channel single-top quark production cross section at 13 TeV with the CMS detector

The electroweak production of single-top quarks in the t-channel can be changed by any deviation from the Standard Model, it is therefore an excellent opportunity to search for new physics. In this poster the recent cross-section measurement of the CMS collaboration is presented with the full 2015 dataset of the LHC Run II at a center-of-mass energy of 13 TeV. The cross section and the top/antitop ratio is extracted using a binned maximum likelihood fit to the distribution of a multivariate classifier in events containing one isolated muon in the final state.

### Summary

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**Session Classification:** Poster Session & Finger-Food Dinner

**Track Classification:** Poster Session